





Shalon discloses a capillary printing system having a preservation device 101, which is disposed within, containing, or in contact with a printing device 11 and preserves the capability of the printing device 11 to print an agent on the substrate for long-term storage (Shalon, column 1, lines 55-58). Shalon also teaches that to manufacture biochips, the printing system must dispense different reagents on the substrate so that the reagents do not overlap. As shown in Fig. 2, Shalon's dispensers are positioned on the outer rim of the turntable. To prevent overlapping the dispensed reagents on the substrate, the dispensers must be aligned.

Claim 1 of the present invention has been amended to set forth "a positioning device, disposed on the conveying device, corresponding to the series of dispensing positions; and a retainer, disposed on the conveying device, corresponding to the plurality of positioning devices." Claims 15 and 20 have been amended to set forth the steps of "providing a conveying device having a positioning device and a retainer... conveying and positioning the substrate through a series of receiving positions corresponding to a series of dispensing positions by the positioning device and the retainer." Each dispenser of the present invention is aligned at its own position, and each substrate is moved by itself or is moved together with a fixture using the positioning device and the retainer. Thus, the apparatus of the present invention more easily adjusts position between each substrate and the dispensers. In contrast, Shalon's dispensers are aligned on the entire outer rim of the turntable, and the substrates are moved by rotating the entire turntable below the printing assembly. Shalon discloses actuators 213 which provide a positioning stage 214 and L-bracket 215 for attaching each of the print heads 91 (Shalon, column 8, lines 56-59), but Shalon does not disclose a positioning device on the turntable corresponding to multiple dispensing positions of the dispensers or a retainer on the turntable corresponding to multiple positioning devices.

Hence, Shalon does not disclose all of the elements of the present invention, as set forth in claims 1, 15, and 20. Claims 2-4, 7, 17-19, and 22-24 depend on claim 1, 15, and 20, which is patentable for at least the reasons described above.



foregoing, the rejection of claims 1-5, 7, 15, 17-20, and 22-24 under 35 U.S.C. § 102(e) should be withdrawn, and reconsideration is respectfully requested.


### CONCLUSION

In view of the above, each of the presently pending claims in this application is believed to be in immediate condition for allowance. Accordingly, the Examiner is respectfully requested to pass this application to issue.

If there are any other issues remaining which the Examiner believes could be resolved through either a Supplemental Response or an Examiner's Amendment, the Examiner is respectfully requested to contact the undersigned at the telephone number indicated below.

Dated: October 4, 2004

Respectfully submitted,

By   
Denise L. Poy  
Registration No.: 53,480

DARBY & DARBY P.C.  
P.O. Box 5257  
New York, New York 10150-5257  
(212) 527-7700  
(212) 753-6237 (Fax)  
Attorneys/Agents For Applicants